

Amendments to the Claims:

This listing of claims will replace all prior version, and listings, of claims in the application:

Listing of Claims:

1-8. (Canceled).

9. (New) A sensor for determining a concentration of particles in gases, comprising:

at least one substrate element;

a first measuring electrode; and

a second measuring electrode, wherein there is a measuring area between the first measuring electrode and the second measuring electrode, wherein the first and second measuring electrodes are arranged so that by applying a voltage between the measuring electrodes an asymmetric electric field is formed on the measuring area.

10. (New) The sensor of claim 9, wherein sides of the first and second measuring electrodes, facing one another, are not parallel to one another.

11. (New) The sensor of claim 9, wherein a distance between the first and second measuring electrodes one of increases and decreases continuously along the electrodes.

12. (New) The sensor of claim 9, wherein the first and second measuring electrodes together form an interdigital comb structure, and wherein at least one of the measuring electrodes includes finger electrodes having varying widths.

13. (New) The sensor of claim 12, wherein one of the following is satisfied: (i) at least one of the measuring electrodes has a triangle form; and (ii) the finger electrodes of at least one of the measuring electrodes has the triangle form.

14. (New) The sensor of claim 12, wherein at least one measuring electrode has one of (i) a structure along a side facing the other measuring electrode, and (ii) a structure along the finger electrodes.

15. (New) The sensor of claim 14, wherein the structure is formed by at least one of tips, squares, dots, and geometric shapes that are regularly arranged.
16. (New) The sensor of claim 9, wherein at least one central electrode is provided between the first measuring electrode and the second measuring electrode.
17. (New) The sensor of claim 9, wherein the particles include soot particles.